Analog 9 0. V52 Digital 51 FIR Filter FIR Filter FIR Filter 20 bits bits 48 Complex Adder OCQPSK Modulation +-Walsh_{PN} PN Spreader Long&Short PN Generator 45 4 43 8 461 \overline{a} Channe I Adder G, 22 2,4 Gain Stage 33 8 Walsh Walsh Cover Walsh, Walsh 7 <u>છ</u> CH3 — . K <u>유</u> 딩

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FIG. 2

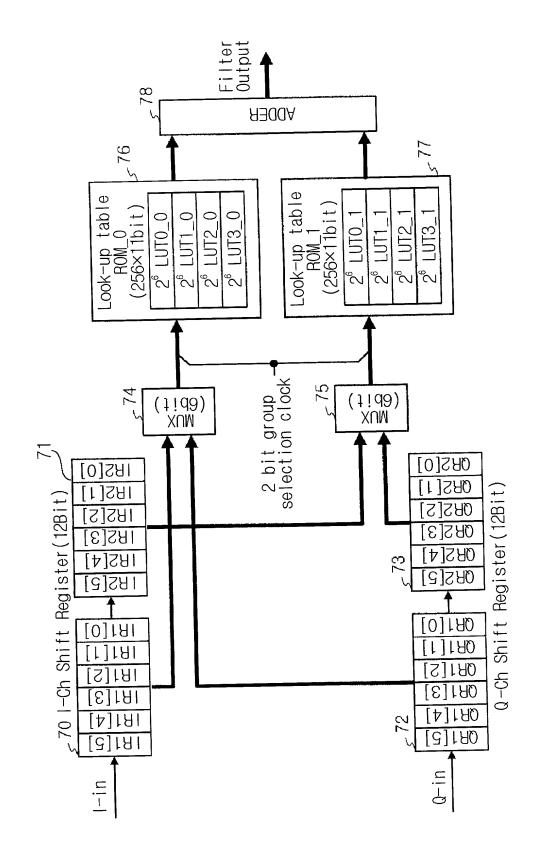


FIG. 3

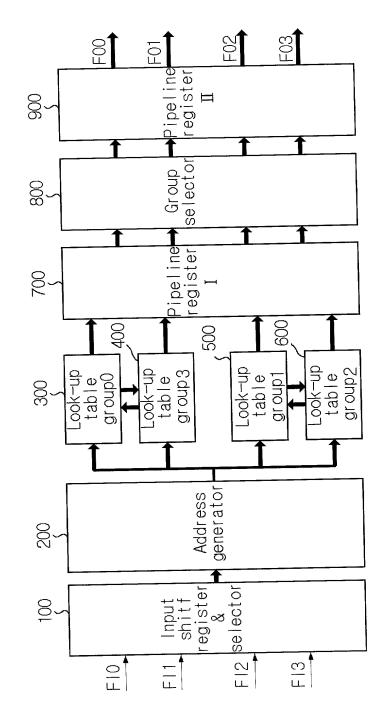
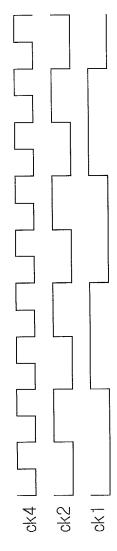


FIG. 4

Total 108 Tap	0 11 ··· 2223	24 25 46 47 48 59 60 61 82 LUT_1 LUT_C LUT_2	.748 ··· 5960 LUT_C	1 22 23 24 25 46 47 48 59 60 61 82 83 84 85 106 107 LUT_0 LUT_3 LUT_3
Look-up table group 0	0 4 8 12 16 20 2 ⁵ LUTO 0	24 28 32 36 40 4 25 LUTO_1	4 48 52 56 60 2'LUTO_C	2 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 2 LUTO 0 2 LUTO 1 2 LUTO 3
Look-up table group 1	1 5 9 13 17 21 25 LUT1_0	25 29 33 37 41 4 2° LUT1_1	549 53 57 61 2\u00e4UT1_G	1 5 9 13 17 21 25 29 33 37 4 1 45 49 53 57 6 1 65 69 73 77 8 1 85 89 93 97 10 1 105 2 LUT1_0 2 LUT1_3
Look-up table group2	2 6 10 14 18 22 25 LUT2_0	26 30 34 38 42 4 25 LUT 2_1	6 50 54 58 62 2 LUT 2 G	2 6 10 14 18 22 26 30 34 38 42 46 50 54 58 62 66 70 74 78 82 86 90 94 98 102 106 25 LUT 2_0 25 LUT 2_3
Look-up table group 3	3 7 11 15 19 23 27 25 LUT3_0	27 31 35 39 43 4 2° LUT 3_1	7 5155 59 63 2 L UT3 G	3 7 11115 19 23 27 31 35 39 43 47 51 55 59 63 67 7 1 75 79 83 87 9 1 95 99 103 107 25 LUT 3_0 25 LUT 3_2 25 LUT 3_3
Input shift register & selector ouput	6 bit A[26:21]	6 bit A[20:15]	3 bit 6 bit A[14:12] A[11:6]	6 bit 6 bit A[11:6] A[5:0]

FIG. 5



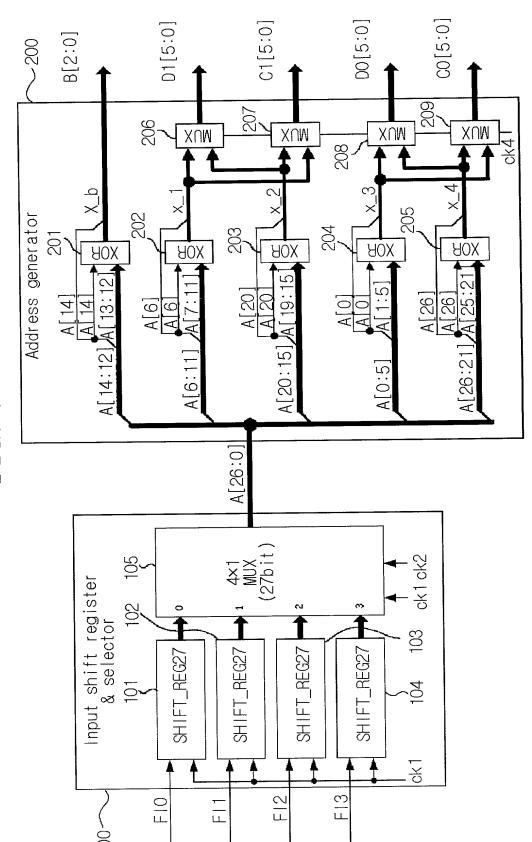


FIG. 6

Š 9 000 507 ~605 500 506 BEC group2 _ook-up table group1 \sim Look-up table 602 503 D0[4:0]• D1[4:0]• 502 B[1:0] 01[5] 00[5] 8[2] C1[4:0] 00[4:0] B[1:0] C1[5] C0[5] B[2] FIG. 7 300 306 307 400 ALU1 PEG Look-up table group0 9 Look-up table group3 QQA ന B[1:0] +2LUTO C1[4:0]♣2⁵LUT0 00[4:0] 303 C0[4:0] B[1:0] 01[5] 00[5] 8[2] C1[5] C0[5] B[2]

